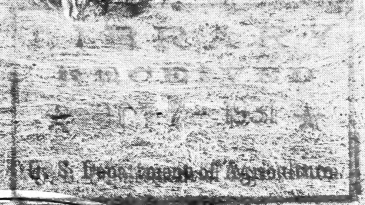


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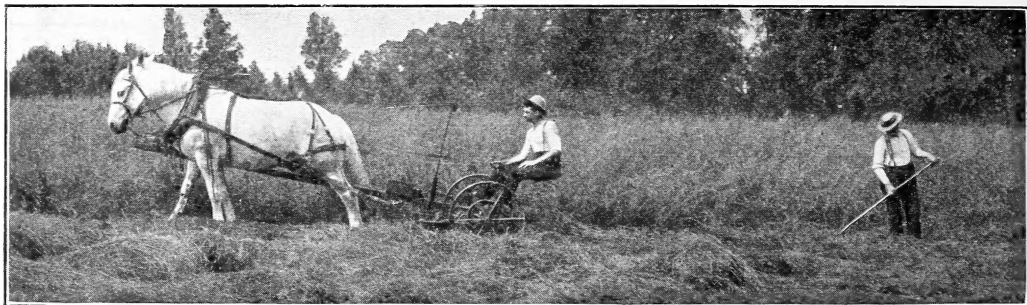
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# 1931 GRAINS and GRASSES

FOR FALL SOWING

PETER HENDERSON & CO.  
35 CORTLANDT STREET, NEW YORK, N. Y.



## HENDERSON'S SPECIAL GRASS SEED MIXTURE

FOR

# Hay and Permanent Pasture

It Produces Wonderful Hay Crops and Luxuriant Pasture  
Maintaining Its Cropping Qualities Twenty Years or More

This famous mixture has seeded thousands of acres of meadow and pasture land for progressive farmers and stock raisers in various parts of the United States, with most gratifying results. It produces wonderful hay crops and luxuriant pasture, maintaining its cropping qualities twenty years or more. It is a well-balanced combination of a number of native and acclimated foreign Grasses and Clovers, blended and improved upon during exhaustive trials under widely varied conditions, soils and localities for several years, until practically perfect, our aim being to produce, under the extremes of the American climate of heat, drought and cold, a PERMANENT dense and deep-rooting turf that would yield year after year the maximum quantity of foliage. These Grasses are of superior quality, inviting, sweet and nourishing, whether used as hay or pasture. That we have been successful is attested by the numerous letters of praise for these special Grass mixtures that we have received from the users, and the tributes to their merits published in many of the agricultural journals.

In preparing these mixtures the greatest care is exercised in selecting such varieties as are suited to the soil to be sown and are likely to realize the object in view. **Therefore a description of the soil and climate, and the purpose for which sown, and if with or without a grain crop, should accompany each order.**

**The Yield of Hay** under favorable conditions averages 3 to 4 tons per acre at the first cutting, or nearly double that of Timothy and Clover, and larger yields are not unusual; then, if not pastured, the second crop is usually about one-half the quantity of the first. This shows the great value of this Special Mixture of Grasses over Timothy which seldom yields a second crop, nor can it be pastured after cutting without seriously damaging the next season's yield, for Timothy after cutting throws its strength into its bulbous base, on which its yield the next season depends.

**Pasturage.** After the hay crop is cut the grass commences to grow at once, recovering its verdure in a few days' time and affording a continuous pasturage even through dry summer weather, until winter sets in; or the field may be pastured from earliest spring and still be in prime condition for yielding hay or pasture the next season, and so on year after year, for the various grasses composing this special mixture are all dense, fibrous-rooting varieties, sustaining no injury from cropping—proving its value over Timothy, which would be injured, probably ruined, under similar conditions.

**Sow 40 lbs. per acre.**

Full directions for sowing enclosed in every bag.

**Prices, HENDERSON'S SPECIAL GRASS MIXTURE FOR HAY AND PERMANENT PASTURE.**  
For Light Soils, Medium Soils or Heavy Soils (state which in ordering) (purchaser paying transportation) 50c. per lb.; 10 lbs., \$4.00; 100 lbs., \$35.00.

*The fall season is especially favorable to the growth of young grass, for at that season the seeds have the benefit of thoroughly warmed ground and a copious rainfall, which hastens germination and enables the grass to become firmly established before winter sets in. Then, on the opening of spring, the grass immediately recommences its growth and taking full possession of the ground, prevents weeds from obtaining a foothold.*

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## PURCHASER PAYS TRANSPORTATION CHARGES ON FARM SEEDS

We make no charge for packing or cartage of goods to any railroad station, steamship line or express office in New York City. Farm seeds we do not deliver free—consignee pays the transportation charges. In the event of small quantities being wanted by mail, postage should be added according to Zone rates.

**WE MAKE NO CHARGE FOR PACKING**, except special for foreign shipments, as tin-lined cases, double sacks, etc., then we charge cost. Cloth bags we charge for, viz.:  $\frac{1}{2}$  peck, 10c.; 1 peck, 12c.;  $\frac{1}{2}$  bushel, 15c.; 1 bushel, 20c.; 2 bushels, 35c. Burlap bags: 1 peck, 10c.;  $\frac{1}{2}$  bushel, 12c.; 1 bushel, 15c.; 2 bushels, 20c.; 4 bushels, 25c.; 6 bushels, 30c.; 8 bushels, 40c.

In accordance with the universal custom of the Seed Trade, **PETER HENDERSON & CO.** gives no warranty, express or implied, as to description, quality, productiveness, or any other matter of any Seeds, Bulbs, Roots or Plants they send out, and they will not be in any way responsible for the crop.



# ORDER SHEET FOR FARM SEEDS

# Peter Henderson & Co.

35 Cortlandt Street, New York, N. Y.

## Parcel Post Zone from N. Y. City

SEND BY.

State if wanted by Parcel Post; Express; Freight (and Route); Steamer (and Line).

To (Name).

P. O. Box, Street  
or Rural Del'ry

Post Office

County.....; State.

Station or Exp. Office.

(Only if different from P. O.)

Superintendent or Farm Manager.

(That we may register for Catalogues.)

In accordance with the universal custom of the Seed Trade, PETER HENDERSON & CO. gives no warranty, express or implied, as to description, quality, productiveness, or any other matter of any Seeds, Bulbs, Roots or Plants they send out, and they will not be in any way responsible for the crop.

Date....., 1931

AMOUNT ENCLOSED

\$.....

(State whether Cash, Draft, P. O. Order,  
Express Money Order or Stamps.)

(If goods are wanted by Express, C. O. D.,  
25 per cent. of the amount must  
accompany the order.)

RECORDED  
and entered for following Catalogues

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By.....

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HENDERSON'S SPECIAL  
GRASS MIXTURE

## FOR PERMANENT PASTURE

Supplies Continuous and Abundant Pasturage for Twenty Years or More, Remains Green and Succulent All Summer Long, When Ordinary Grazing Lands Are Burned Brown

There is no more important part of a farm than a good pasture, and that can only be obtained by the use of the proper Grasses, varieties that have different root formations and different habits and season of growth, in order to maintain a rich, close turf throughout the entire season. Timothy should never be used for pasture, because it will *not* stand trampling, and soon runs out when heavily pastured and at best is short-lived, as compared with the permanent Grasses used in our Special Mixtures. These Mixtures contain over a dozen of the best permanent Grasses, both American-grown and imported. All are permanent, and when once established will last indefinitely, if the fertility of the soil is kept up by occasional top-dressing. Owing to the different habits of growth, the Grasses grow closer together and form a rich, close turf, covering the soil completely and forming a protection to the roots during hot, dry weather, thereby enabling these Grasses to maintain a rich green appearance when Timothy and other Grasses are burned up. The thick turf also prevents animals poaching through and destroying the pasture. Sow 40 lbs. per acre. Price (purchaser paying transportation), 50c. per lb.; 10 lbs., \$4.00; 100 lbs., \$35.00.

HENDERSON'S SPECIAL  
GRASS SEED MIXTURE

## FOR PERMANENT HAY

Supplies a Good Crop of Hay in Dry Seasons when ordinary Hayfields are Burned Up

Although the most widely cultivated hay grass in the United States is Timothy, or a mixture of Timothy and Clover, and while they answer the purpose admirably on farms where the soil is suitable and where the usual three and four years' rotation is carried on, yet there are many other grasses which will yield more profitable returns.

An acre of Henderson's Special Grass Mixture for Permanent Hay will yield double the quantity of an acre of Timothy and Clover, and the farmer whose land is sown with a proper mixture of Permanent Grasses, requiring only an occasional top-dressing of manure or fertilizer to maintain their heavy cropping qualities for twenty years or more, avoids the expense of the yearly plowing and cultivating, necessary in rotation cropping.

Hay yields very profitable annual returns at a minimum of labor and expense. The seed of these Permanent Grasses is more costly than Timothy, and more is required per acre, but by reason of their heavy cropping qualities and permanency they soon repay the extra cost and leave a handsome margin for the farmer, when the cost of plowing, harrowing and re-seeding Timothy every three and four years is taken into consideration.

Price (purchaser paying transportation), 50c. per lb.; 10 lbs., \$4.00; 100 lbs., \$35.00.

HENDERSON'S RENOVATING MIXTURE FOR IMPROVING OLD PASTURES. (Sow 40 lbs. per acre.) Price (purchaser paying transportation), 50c. per lb.; 10 lbs., \$4.00; 100 lbs., \$35.00.

HENDERSON'S SPECIAL GRASS MIXTURE FOR WOODLAND PASTURES. (Sow 40 lbs. per acre.) Price (purchaser paying transportation), 60c. per lb.; 10 lbs. \$5.00; 100 lbs., \$45.00.

## PERMANENT CLOVERS

Do not omit to sow Clovers with the Grasses, as they add to the yield of hay and pasture, and by their ability to collect atmospheric nitrogen and store it in the root nodules, assist the growth of the Grasses and are of considerable benefit to subsequent crops.

Mixed Permanent Clovers, on account of their greater weight, should be sown separately, but at the same time as the Grasses. This Mixed Clover comprises White, Mammoth Perennial or Cow Grass, Alsike, etc. Sow 10 lbs. per acre. Price, 75c. per lb.; 10 lbs., \$6.50; 100 lbs., \$55.00.

# HENDERSON'S Superior Re-Cleaned Grass Seeds

All Our Grass and Clover Seeds are Choicest Quality New  
Crop Seeds of the Highest Germinating Power: Thoroughly  
Cleaned by the Most Improved Seed-Cleaning Machinery

We offer choice, re-cleaned seeds of imported and native grasses suited to the widely varied climatic conditions of this continent.

While the various mixtures of grasses made up by us, and fully described and illustrated on pages 2 and 3, cover the general needs of the American farmer for permanent pasture, and permanent hay, yet sometimes conditions are such, that it is necessary to grow some special grass, or combination of grasses to meet them. For instance, in sections where the rainfall is very light, or in hot Southern climates it is advisable to grow such drought-resisting grasses as Awnless Brome Grass first introduced into this country in 1889 by us; or Sudan Grass and Bermuda Grass which succeed admirably in such latitudes.

Then again, there are special soil conditions which have to be met by prescribing suitable combinations of grasses. We are prepared at all times to make up special mixtures for such particular purposes; and all correspondence relating to such matters will receive our prompt attention. Customers writing us should send a description of soil and climate, and the purpose for which the crop is to be grown, and if it is intended to be sown with a grain crop or alone. We are always glad to give our farmer friends the benefit of our long and varied experience in all matters relating to agriculture. Special quotations for large quantities.

	Weight Per Bush.	Per Bush.	Per Lb.	Per 100 lbs.
Awnless Brome Grass. ( <i>Bromus inermis</i> .) Will produce heavy crops in dry sections and on poor soils, where other Grasses perish. It is one of the hardest Grasses.	14 lbs.	\$7.00	\$0.55	\$49.00
Bermuda Grass. ( <i>Cynodon dactylon</i> .) Of great value in the Southern States.	35 lbs.	.....	.70	55.00
Canada Blue Grass. ( <i>Poa compressa</i> .) Useful for sowing on hard clay and poor soils.	20 lbs.	9 00	.50	40.00
Colonial Bent. ( <i>Agrostis tenuis</i> .) Waipa Brown of New Zealand excellent for putting greens and lawns	20 lbs.	35.00	2.00	150.00
Chewings New Zealand Fescue. ( <i>Festuca Chewings</i> .) This Grass is specially recommended for golf putting greens and lawns. Succeeds on all soils.	20 lbs.	10.00	.60	45.00
Creeping Bent Grass. ( <i>Agrostis species</i> or <i>So. German Mixed Bent</i> .) Excellent for lawns	20 lbs.	28.00	1.75	125.00
Creeping Red Fescue (North German Crown.) ( <i>Festuca Rubra True</i> .) Forms a dense turf and does well on shaded poor soils	20 lbs.	28.00	1.75	125.00
Crested Dog's Tail. ( <i>Cynosurus cristatus</i> .) Should enter in moderate quantity in permanent pasture and lawn mixtures.	21 lbs.	12.00	.65	50.00
English Rye Grass. ( <i>Lolium perenne</i> .) Grows rapidly and makes a good showing in a month.	24 lbs.	7.00	.40	25.00
Fine-leaved Sheep's Fescue. ( <i>Festuca ovina tenuifolia</i> .) The finest bladed Grass, valuable only for lawns.	14 lbs.	11.00	.90	70.00
Hard Fescue. ( <i>Festuca duriuscula</i> .) A dwarf Grass, forming a dense, fibrous mat, succeeds well in dry places.	14 lbs.	7.00	.60	45.00
Italian Rye Grass. ( <i>Lolium italicum</i> .) Thrives in almost any soil, and yields early and abundant crops. Sown in the fall will produce an excellent hay crop the following season, but lasts only one year.	18 lbs.	5.50	.40	25.00
Kentucky Blue Grass. ( <i>Poa pratensis</i> .) Fancy or double extra clean. Though offered at the standard weight of 20 lbs. per bushel, the natural weight of this fancy seed is 21 to 25 lbs. per measured bushel.	20 lbs.	9.00	.50	40.00
Meadow Fescue. ( <i>Festuca pratensis</i> .) Of great value in mixtures for permanent pastures.	22 lbs.	7.75	.40	30.00
Orchard Grass. ( <i>Dactylis glomerata</i> .) One of the most valuable Grasses; in mixtures, either for pasture or hay.	14 lbs.	7.00	.55	40.00
Red Fescue. ( <i>Festuca rubra</i> .) Forms a close, rich sod, and is valuable in lawns.	14 lbs.	7.00	.60	45.00
Red Top Fancy. ( <i>Agrostis Palustris</i> .) The finest re-cleaned fancy seed. Valuable either for hay, or permanent pasture and lawns	32 lbs.	14.50	.50	40.00
Red Top Ordinary. Unhulled seed, lighter than fancy, purity from 60 to 65%	14 lbs.	4.25	.40	25.00
Rhode Island Bent Grass. ( <i>Agrostis tenuis</i> .) A very fine variety for lawns.	20 lbs.	35.00	2.00	150.00
Rough-stalked Meadow Grass. ( <i>Poa trivialis</i> .) Excellent for pastures and meadows, particularly on damp soils.	20 lbs.	14.00	.80	60.00
Seaside Bent. ( <i>Agrostis Maritima</i> .) Tried on putting greens with good results.	20 lbs.	40.00	2.50	175.00
Sheep's Fescue. ( <i>Festuca ovina</i> .) Short and dense in growth, excellent for sheep pastures.	14 lbs.	7.00	.60	45.00
Sudan Grass or "Garawi Grass." The first crop matures in from 50 to 75 days, and the recovery after cutting is so rapid that another cutting may be taken 25 to 35 days later.	25 lbs.	5.00	.25	15.00
Sweet Vernal, True Perennial. ( <i>Anthoxanthum odoratum</i> .) Emits an agreeable odor, which it imparts to the hay.	10 lbs.	.....	2.00	.....
Tall Meadow Fescue. ( <i>Festuca elatior</i> .) Early, and productive on wet or clay soils.	14 lbs.	7.75	.60	50.00
Tall Meadow Oat Grass. ( <i>Avena elatior</i> .) Of rapid growth, recommended for soiling and hay mixtures.	10 lbs.	4.50	.50	40.00
Timothy. ( <i>Phleum pratense</i> .) The grade we offer is choice, free from weed seeds and of high germinating power.	45 lbs.	10.00	.30	18.00
Various-leaved Fescue. ( <i>Festuca heterophylla</i> .) Valuable for permanent pasture, and desirable in lawn mixtures.	14 lbs.	11.00	.90	70.00
Wood Meadow Grass. ( <i>Poa nemoralis</i> .) Of early growth and thriving well under trees.	14 lbs.	15.00	1.20	100.00

PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE OWING TO FLUCTUATIONS OF THE MARKET

## CRIMSON OR SCARLET CLOVER (TRIFOLIUM INCARNATUM)

The Most Valuable Plant Known for Restoring the Fertility of Wornout Soils

All lands from which crops have been harvested during the summer and fall should be sown with Scarlet Clover for plowing under the following spring. Plowing under a good crop of Scarlet Clover is equivalent to 20 tons of stable manure per acre.

It is the cheapest source of nitrogen and has revolutionized the methods of farming in many States, has restored to profitable cultivation thousands of acres of poor land. Its value as a winter soil mulch and for green manuring for orchards cannot be overestimated.

If intended for feeding, it should always be cut while in the young stage, and never fed to stock after the crop has ceased flowering, as serious results are apt to follow the feeding of overripe Crimson Clover.

In the latitude of New York, time for sowing may extend from July 15th to September 15th, and further South up to October. The seed needs to be only lightly covered, and a good plan is to sow on fresh plowing and cover with a light harrow. Sow 15 lbs. per acre. (See engraving.)

Choice new crop seed of highest growing quality, thoroughly re-cleaned, and free from weed seeds.

Price, 40c. lb.; \$17.00 per bushel of 60 lbs.; \$25.00 per 100 lbs.

## ALSIKE OR HYBRID CLOVER (TRIFOLIUM HYBRIDUM)

A hybrid intermediate in growth and appearance between Red and White Clovers. It is a perennial and one of the hardiest of all clovers, thriving particularly well in cool climates and stands freezing well. It is valuable for sowing with other grasses and clovers as it forms a thick bottom, increasing the yield of hay. Sow (if alone) 8 lbs. per acre; weight, 60 lbs. per bushel.

Price (Domestic Grown), 70c. lb.; \$36.00 per bushel of 60 lbs.; \$55.00 per 100 lbs.

## RED CLOVER (TRIFOLIUM PRATENSE)

Price (subject to change without notice), Henderson's (Domestic Grown) Superior Sample (extra re-cleaned), 70c. lb.; \$36.00 per bushel of 60 lbs.; \$55.00 per 100 lbs.

## MAMMOTH OR PEA VINE RED CLOVER

(TRIFOLIUM PRATENSE PERENNE)

Quite distinct from the common Red Clover, being of larger and coarser growth. Valuable for reclaiming exhausted lands. Sow (if alone) about 12 lbs. per acre; weight, 60 lbs. per bushel. Henderson's (Domestic Grown) Superior Sample. Price, 75c. lb.; \$38.00 per bushel of 60 lbs.; \$60.00 per 100 lbs.

## WHITE DUTCH CLOVER

(TRIFOLIUM REPENS)

A very hardy creeping variety, which accommodates itself to a great variety of soils, but grows most luxuriantly in moist ground or in wet seasons. It is valuable in mixtures for permanent pastures and lawns. Sow (if alone) 8 lbs. per acre; weight, per bushel, 60 lbs. Price, 80c. lb.; \$40.00 per bushel of 60 lbs.; \$65.00 per 100 lbs.





## HENDERSON'S NORTHERN GROWN ALFALFA SEED

**ALFALFA or LUCERNE.** (*Medicago sativa*.) A Clover-like leguminous plant of great importance as a hay and forage crop, nutritious and rich in protein elements. It grows 2 to 5 feet high and sends roots, 5, 10, 20, and sometimes 30 feet into the subsoil. It needs one season to become established, after which it yields enormous crops annually for many years. 3 or 4 cuttings per season, aggregating 4 to 6 tons cured hay per acre, are harvested, according to conditions and locality. It does well on all good rich soils (except heavy clay), if well drained, or overlying a permeable subsoil; on calcareous soil it thrives especially well. Our strain of Alfalfa Seed is grown in far Northern regions, where plants have to endure extreme cold and still thrive in those high altitudes. Our experience—and that of our customers—has shown that such seed is undoubtedly the best for the North and Eastern States, and that it excels all others in hardiness. Before offering this seed to our customers for sale, it is thoroughly re-cleaned by the most modern seed-cleaning machinery in America. These are not ordinary fanning mills, but machines with an even and strong air suction—equal at all points—which is quite a different thing from a blast. By this process we are enabled to separate the sound, perfect seeds from all rubbish and light, imperfect seeds. Sow in the Northern States during June, July or August, 30 to 40 lbs. of seed per acre if broadcasted, 25 to 30 lbs. if drilled. In the South sow in February or September. (See engraving.)

Price, Henderson's Re-cleaned Alfalfa (Domestic Grown), 60c. per lb.; \$30.00 per bushel of 60 lbs.; \$45.00 per 100 lbs.

"That Alfalfa I bought of you is more than a success, it is a wonder to all the farmers around here. No rain here for eight weeks, yet it is growing fine while around the fields are all dried up."

THOMAS S. OSBORN, Amagansett, L. I.

## GRIMM ALFALFA SEED THE HARDIEST ALFALFA KNOWN

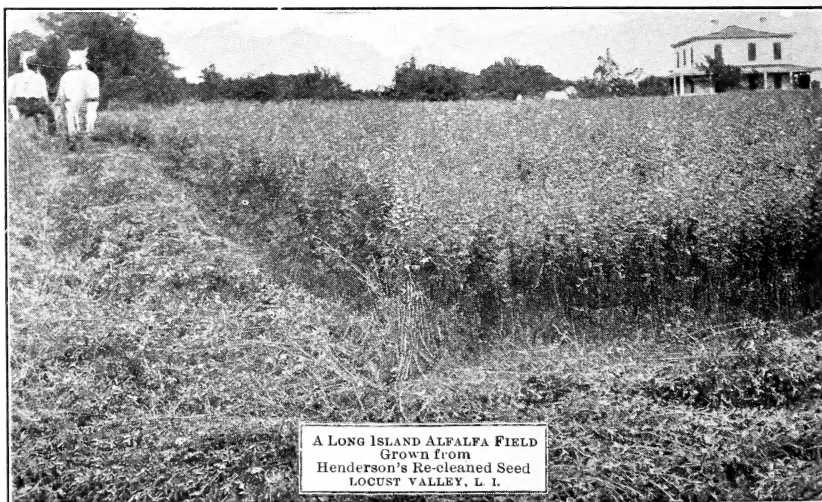
"The Country Gentleman" of March 10, 1917, says: "According to the records, Grimm Alfalfa was introduced into Carver county, Minnesota, in 1857, by Wendelin Grimm, an immigrant from Baden, Germany. He brought with him fifteen or twenty pounds of alfalfa seed, and sowed it in the spring of 1858. Just how well this first seeding of the 'ewiger Klee'—everlasting clover—as he called it, succeeded is not definitely known, but at least enough of the plants survived to furnish seed for future sowings, and in 1867, 480 pounds were threshed from three acres."

The attention of the Minnesota experiment station was called to this alfalfa in 1901, and by careful experimentation Grimm Alfalfa was found to be far superior to common kinds in withstanding unfavorable winters. This strain of alfalfa seed not only endures extremely low temperature, but it can be cut with greater safety in the fall, and will bear more abuse in the way of pasturage than any other forage plant. Grimm Alfalfa has larger crowns, and a more spreading root system than the ordinary Alfalfa. It is also claimed that it will yield from ten to fifteen per cent more than any other variety, and will start and thrive in undrained wet locations, where the ordinary sort was tried unsuccessfully. One of the characteristics of the Grimm Alfalfa is that some of the plants produce peculiar greenish-yellow flowers. The seed is high priced and it is rather hard to get the genuine article.

We offer our stock at the following prices, as long as unsold.

Price (Domestic Grown), 80c. per lb.; \$42.00 per bushel of 60 lbs.; \$65.00 per 100 lbs.

Full cultural  
instructions  
will be found in  
our  
Booklet  
"ALFALFA  
ON  
NORTHERN  
FARMS"  
sent free to all  
applicants.



A LONG ISLAND ALFALFA FIELD  
Grown from  
Henderson's Re-cleaned Seed  
LOCUST VALLEY, L. I.

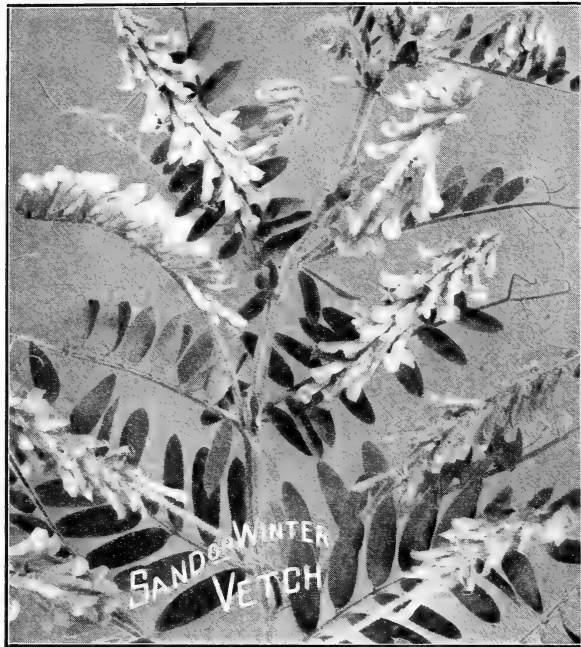
U. S. DEPT. of AGRICULTURE SAYS:

"IN ADDITION TO THE HAY CROP, ALFALFA IN TWO YEARS ADDS \$100 TO THE VALUE OF EVERY ACRE ON WHICH IT GROWS."

# SAND OR WINTER VETCH

(VICIA VILLOSA)

THE EARLIEST CROP FOR CUTTING OR PLOWING UNDER IN SPRING  
A VALUABLE UPBUILDER FOR POOR OR IMPOVERISHED SOIL



Sand or Winter Vetch is perfectly hardy throughout the United States remaining green all winter. It should be sown during August and September mixed with rye which serves as a support for the plants. When sown in spring mix with oats or barley.

It is ready for cutting a month earlier than any other fall sown forage plant, and a full crop may be taken off before planting spring crops. As a forage crop it is exceptionally valuable especially in the Northern States where Scarlet Clover winter kills. It is highly nutritious, is eaten with relish and may be safely fed to all kinds of stock.

In the South and dry Western parts of the country, it has proven valuable as a hay crop, when sown in fall and cut early in spring, before the droughts set in.

Sand or Winter Vetch will grow even on barren soils, though of course it will grow much more luxuriantly on good soils. Being a legume, it attracts atmospheric nitrogen, which is stored in the soil. When grown on new soils it will prove advantageous to inoculate with Farmogerm. Sow one bushel to the acre with one-half bushel of rye. (See engraving.)

Price, 40c. lb.; \$16.00 per bushel of 60 lbs.; \$25.00 per 100 lbs.

# TRUE DWARF ESSEX RAPE

PROVIDES PERFECT PASTURE and is GREATLY RELISHED BY ALL STOCK  
INDISPENSABLE FOR SHEEP AND HOGS

Sow in the North from April to end of August and in the South  
During September and October

In the United States we have millions of acres of good land that annually lie idle or run to weeds the latter part of the season, after the grain, potato and hay crops have been harvested, a large portion of which might be made to produce one of the finest feeds imaginable, and in the greatest abundance, at a time when cattle, sheep and hogs are roaming through bare pastures in search of a scanty living. Under favorable conditions it is ready for pasturing sheep or cattle within six weeks from time of sowing, and on an average one acre will carry twelve to fifteen sheep six weeks to two months. When on the Rape they should at all times have access to salt; but water is not necessary. There are several varieties of Rape, but care should be taken to procure the DWARF ESSEX, or English, as it is sometimes called, which does not seed the same season as sown, unless in some exceptional cases, as when sown too early and the young plant is touched by frost. In northern States it should be sown from April to end of August for fall pasturing, but as it thrives best in cool weather, it should not be sown in the Southern States until September or October for winter pasture. In the latitude of New York it should be sown in April, or in July or August. Its fattening properties are probably twice as good as those of Clover, and for sheep the feeding value of Rape excels all other plants we know of. At the Michigan Experiment Station 128 lambs were pastured for eight weeks on 15 acres of Rape sown in July, and showed a gain of 2,890 lbs., or at the rate of 3 lbs. per lamb each week. Even so far South as Alabama it has proved a boon to the farmer. In a recent bulletin published by the Alabama Experiment Station they state: "Quality of product good for both hogs and cattle. The growth was enormous. By repeated sowings it will and did carry more hogs through our dry, hot summers than four times the amount of land planted in anything else ever grown here. I would recommend it to all Southern farmers." To secure the best results, the Rape should be sown in drills. Sow 4 lbs. per acre broadcast, 2 to 3 lbs. per acre in drills.

Price, 20c. per lb.; \$8.00 per bushel of 50 lbs.; 100 lbs., \$15.00.

Prices Subject to Change  
Without Notice

HENDERSON'S

Prices Subject to Change  
Without Notice

# Superior Winter Seed Wheat

PEDIGREE STRAINS—CLOSELY GRADED  
FREE FROM RYE, CHEAT, SMUT, GARLIC OR COCKLE

American Farmers sowing  
Common Wheat are producing 15 to  
18 bushels per acre

## TWO FACTS

American Farmers sowing  
Seed Wheat of Pedigree Strains are  
producing 30 to 45 bushels per acre

It costs as much to lay down an acre of Wheat that yields only 15 bushels per acre as one that will yield from 30 to 45 bushels. The first scarcely returns the cost of the investment while the latter yields a handsome profit. In order to attain such results, sow **Henderson's Superior Seed Wheat**, which is grown especially for seed purposes, from cross-bred, select pedigree strains of undoubted superiority.

## LEAP'S PROLIFIC (Beardless)

Leap's Prolific Wheat was originated about ten years ago in the Shenandoah Valley of Virginia. Since then over one hundred thousand bushels have been distributed among the wheat growers throughout the Eastern States.

The popularity that Leap's Prolific Wheat has gained during the short time since its introduction is without a parallel.

It is an extremely heavy yielder. Reports from various parts of the country give yields averaging from 41 to 46 bushels to the acre. These yields were produced not on small sample trials, but on large acreages.

Leap's Prolific Wheat is extremely hardy, it having survived and produced a perfect crop after the fields were covered with ice during the winter.

It roots deeply and stools vigorously. Only  $1\frac{1}{2}$  bushels are required to sow an acre. It ripens early, with grain and straw maturing at the same time.

The heads are beardless, glistening white in color, compactly built, filled with heavy, plump, grains from base to tip. The grains are well enclosed thereby protecting them from unfavorable weather conditions and also preventing self-shelling when cutting.

The grain is large, dark red of the Longberry type. It is particularly desirable for its milling qualities.

The straw is long, stiff and very uniform, yielding a large tonnage to the acre.

Price, \$1.00 per peck; \$3.00 per bushel of 60 lbs.; 10-bushel lots, \$2.90 per bushel.



LEAP'S PROLIFIC WHEAT



## LANCASTER-FULCASTER

### (BEARDED)

**Lancaster-Fulcaster** is rightly one of the most popular bearded wheats. It represents the development of many years of careful selection of the old variety Fulcaster, which over a long period of years held first place as a big yielding wheat.

Lancaster-Fulcaster is a reliable yielder, year after year. In years when all conditions are against successful crops, this variety proves its reliability by making good average yields in spite of adverse conditions. There are few varieties that will do quite as well on soils of average fertility. Farmers who have not been successful in raising even fair crops of wheat on rather thin soils, should grow this variety. The change will insure them against wheat failures, and produce a satisfactory crop of straw and a surprising crop of grain.

The grain is of the finest quality, a genuine Longberry, dark red and hard. An unusual feature peculiar to this variety is that on poor soils the grain will be of full size. There is no wheat grown that is better liked by millers.

The extreme hardness of Lancaster-Fulcaster will carry it safely through extreme winters. It has a vigorous constitution that withstands attacks of insect pests and diseases.

In the Pennsylvania State College Experimental Station's four years' tests of seventeen varieties of wheat, Lancaster-Fulcaster led all bearded sorts, yielding on an average of 33.8 bushels per acre for the four years.

Lancaster-Fulcaster ripens early and produces stiff long straw with large, hard, dark red grain. It is well worthy the attention of any wheat grower.

Price, \$1.00 per peck; \$3.00 per bushel of 60 lbs.; 10-bushel lots, \$2.90 per bushel.

## RURAL NEW YORKER No. 6

### (BEARDLESS)

This beardless variety is a hybrid between Rye and Armstrong Wheat, though all traces of Rye have disappeared and it now appears a handsome, beardless Wheat. It succeeds and produces heavy crops on poor, thin land, where Wheat could not be successfully or profitably grown and it also has extreme hardness to recommend it. When first raised, some years ago, the top of the culms was downy with Rye culms. This characteristic could not be fixed, so that for this variety the culms having no down were alone selected. The gold-colored straw is very thick and strong, easily supporting the heavy grain without breaking. The large amber kernels are placed four to a breast, eight breasts to a side, with long symmetrical heads having a brown chaff. One of our growers says:

"It stools as strong as any wheat I ever saw. It had a vigorous, healthy growth all the season, and stood well without lodging. It is very hardy." Sow  $1\frac{1}{2}$  bushels per acre.

Price, \$1.00 per peck; \$3.00 per bushel of 60 lbs.; 10-bushel lots, \$2.90 per bushel.



"BEARDLESS" RURAL NEW YORKER WHEAT

# WINTER RYE

## THE HARDIEST AND EARLIEST GRAIN CROP GROWN

Rye is a valuable crop for either soiling, green fodder, straw or grain. It is largely used by farmers to seed down with in the fall, and is considered preferable to Wheat for this purpose, as it protects the young grass and matures two weeks earlier in the summer than Wheat. It is also extensively used for fall pasture when sown early and for cutting green in late spring and early summer, but when wanted for cutting it is best sown with the Sand or Winter Vetch.

On light sandy soils where other cereal crops would be a failure, rye can be depended upon to produce fair returns. Because of its great hardiness and ability to grow upon poor land, rye is the best crop to plow under to increase the humus in the soil; but this must be done early in the spring before the rye has made much growth, otherwise it would exhaust the moisture in the soil, to the detriment of succeeding crops. A field of rye which has made good growth in the fall is often pastured with cattle or sheep for a time, and also in the spring moderately. The stock is then removed and the rye allowed to ripen. Rye is the only cereal crop which may be thus treated without great injury.

Sow (if alone) from  $1\frac{1}{2}$  bushels to  $2\frac{1}{2}$  bushels per acre.

## ROSEN RYE

### A NEW LARGE YIELDING RYE THRIVES WELL ON ALL SOILS

This remarkable Rye is destined to become one of the leading varieties grown in America. It is extremely hardy due to the fact of its Russian origin.

Rosen Rye was brought to its present high state of development at the Michigan Agricultural College, where it has proven superior to all other sorts in growth and productivity.

While the average yield for rye throughout the United States is only 15 bushels to the acre, Rosen Rye has yielded up to 45 bushels to the acre.

The plant is extremely vigorous, producing a luxuriant stiff straw from large stools. On account of its vigorous stooling habit only one bushel will be required to sow an acre.

The grain of Rosen Rye is extremely attractive, plump, and heavy. It commands the highest market prices wherever offered.

One of the principal merits of this valuable grain, is that it thrives equally as well on light soils as it does on heavy soils. It has proven to be a dependable sort by producing large crops in unfavorable seasons when other kinds only gave meager yields. (See engraving.)

Price, 35c. per quart; 90c. per peck; \$2.50 per bushel of 56 lbs.; 10-bushel lots, \$2.40 per bushel.

## GIANT WINTER RYE

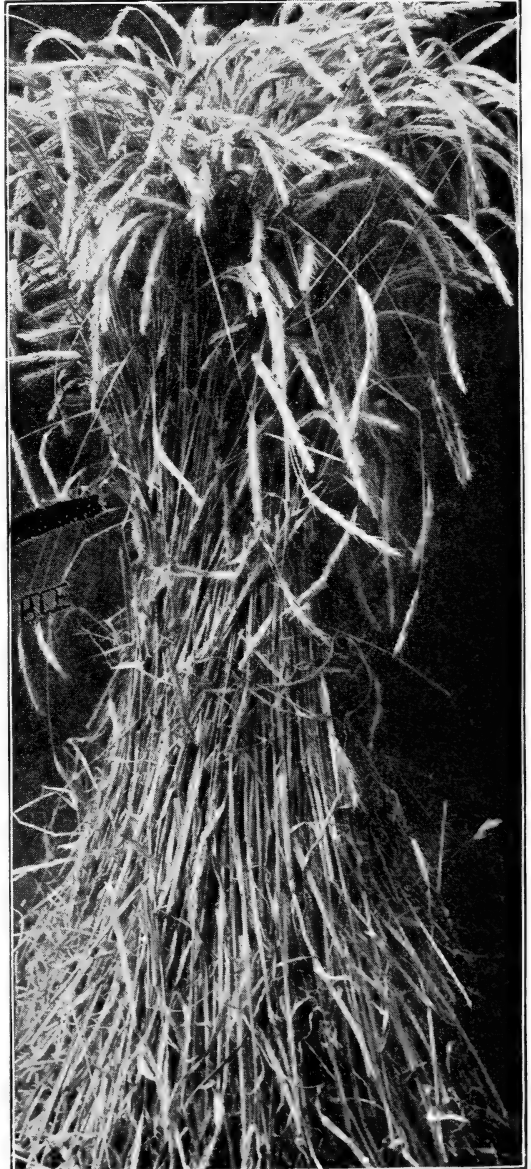
A remarkably heavy cropping Rye, having in fair tests outyielded many other varieties both in straw and grain. The straw is of uniform length, strong and of extraordinary stiffness.

Price, 30c. per quart; 80c. per peck; \$2.25 per bushel of 56 lbs.; 10-bushel lots, \$2.15 per bushel.

## WINTER RYE

The variety most commonly cultivated, whether sown for grain, straw or cutting green.

Price, 30c. per quart; 80c. per peck; \$2.25 per bushel of 56 lbs.; 10-bushel lots, \$2.15 per bushel.

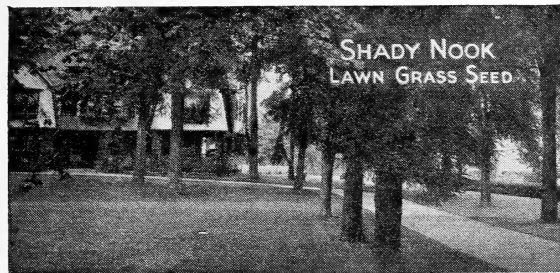


THE NEW ROSEN RYE

# THERE IS A SPECIAL HENDERSON GRASS MIXTURE FOR EVERY PURPOSE

Delivered Transportation Paid in the United States

The Early Autumn is an Ideal Time for Sowing Lawn Grasses



## SHADY NOOK LAWN GRASS SEED

On nearly all lawns there are unsightly bare spots under the shade of trees, which have banned all efforts to get into grass, but with this mixture there need be no further difficulty. It is a combination of fine, dwarf growing varieties, which in their wild or natural state are to be found growing in sheltered and shaded spots.

Price, delivered in the U. S., 60c. qt., \$2.00 for 4 qts., \$3.50 pk., \$6.50 1/2 bu. of 10 lbs., \$12.00 bu. of 20 lbs., \$55.00 per 100 lbs.

## SPECIAL "BENT FORMULA" LAWN GRASS SEED

A lawn that will rival the finest golf course putting green can be made with this superlative Bent Formula. Sow one pound to a space 10 x 30 or 300 sq. ft.

Price, delivered in the U. S., \$1.50 per lb., \$7.00 for 5 lbs., \$25.00 for 20 lbs., \$110.00 for 100 lbs.

## TOUGH TURF GRASS SEED

A blend of Grasses especially suited for the making of Grass Tennis Courts, Croquet Grounds, Bowling Greens, etc. These Grasses are low-growing, deep-rooting and fine-leaved.

Price, delivered in the U. S., 50c. qt., \$1.65 for 4 qts., \$3.00 peck of 5 lbs., \$5.50 1/2 bu. of 10 lbs., \$10.00 bu. of 20 lbs., \$35.00 per 100 lbs.

## SEASIDE LAWN GRASS SEED

For sandy saline surroundings at seashore. Our Seaside mixture will make a good turf of green on sand where the finer grasses are not so likely to thrive, though, of course, the sand must be top-dressed with not less than 2 inches of soil before even our Seaside Grass Seed is sown, to enable the young grass to get a start.

Price, delivered in the U. S., 50c. qt., \$1.65 for 4 qts., \$3.00 pk., \$5.50 1/2 bu. of 10 lbs., \$10.00 bu. of 20 lbs., \$45.00 per 100 lbs.

## SUNNY SOUTH LAWN GRASS SEED

It is especially prepared for the South, and contains all the best grasses that are by nature adapted for hot, dry situations. By using this mixture, and with some care and attention to watering, an all-the-year round lawn can be maintained in Southern States where grasses do not usually thrive.

Price, delivered in the U. S., 60c. qt., \$2.00 for 4 qts., \$3.50 pk., \$6.50 1/2 bu. of 10 lbs., \$12.00 bu. of 20 lbs., \$55.00 per 100 lbs.

## TERRACE SOD LAWN GRASS SEED

A mixture best suited for sowing on terraces, embankments and hillsides. These grasses produce long, strong, spreading roots, thus preventing heavy rains from washing out the soil. There need be no fear of introducing coarse grasses into your lawn by sowing this mixture, for though strong-rooted, the grasses are fine-leaved, like those used in the "Henderson Lawn Grass" mixture.

Price, delivered in the U. S., 60c. qt., \$2.00 for 4 qts., \$3.50 pk., \$6.50 1/2 bu. of 10 lbs., \$12.00 bu. of 20 lbs., \$55.00 per 100 lbs.



## HENDERSON'S LAWN ENRICHER AND TOP-DRESSER

The Henderson Lawn Enricher is a clean, odorless lawn dressing which never fails in inducing a rapid and rich green growth. It should be sown broadcast in the spring or fall, and a remarkable improvement will soon be observed. If applied during the summer, use half of the quantity and water in thoroughly with a hose.

**SPECIAL NOTICE.**—We prepay transportation charges on Fertilizers by parcel post, express or freight at our option within the first and second zones (150 miles of New York City). Purchasers, beyond these zones, pay transportation charges.

For forming a new lawn a 10-lb. package is sufficient to go over an area of 200 square feet, or 1,000 to 1,500 lbs. per acre.

5-lb. package.....	\$0.60	50-pound bag.....	\$3.00
10-lb. package.....	1.10	100-pound bag.....	5.50
25-pound bag.....	2.25	2,000-lbs. (1 ton)...	75.00



# The Most Beautiful Lawns in America ARE MADE WITH THE HENDERSON LAWN GRASS SEED

THE HENDERSON LAWN GRASS SEED is a general purpose mixture and is recommended for most lawns on level or slightly graded surfaces that are exposed to full sunlight. It is a combination of fine leaved dwarf grasses especially selected to be at their best during the different months of the year thus keeping the lawn constantly covered with fresh attractive and enduring turf. It thrives on a wide range of soils under various temperate climatic conditions. It is perfectly hardy requiring no protection during the winter.

The Henderson Lawn Grass Seed has proven its worth by country wide use for over three-quarters of a century. It is the fruit of our years of study and experience combined with that of many of America's foremost gardeners, who by their testimony unite with us in saying that it has no superior for beauty and permanence.

## PRICE OF THE "HENDERSON" LAWN GRASS SEED

(Delivered Transportation Paid)

50c. per qt.                      90c. for 2 qts.                      \$1.65 for 4 qts.                      \$3.00 per peck of 5 lbs.  
\$5.50 per  $\frac{1}{2}$  bushel of 10 lbs.                      \$10.00 per bushel of 20 lbs.                      100 lb. lots and over \$45.00 per 100 lbs.

THE HENDERSON LAWN GRASS SEED SOWN IN THE FALL, PRODUCES ENDURING TURF THAT WILL WITHSTAND SUMMER DROUGHTS.

## Amount of Seed Required for New Lawns

Measurement	Square Feet	Quantity
10 x 10 Ft.....	100	1 qt.
20 x 10 Ft.....	200	2 qts.
20 x 40 Ft.....	800	1 peck
40 x 100 Ft.....	4,000	1 bushel
200 x 200 Ft.....	40,000	5 to 6 bushels

For renovating, use half these quantities.

# PETER HENDERSON & CO.

## 35 CORTLANDT STREET, NEW YORK, N. Y.

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